

Professional and Managerial Branch
Miscellaneous Professional Group
Sciences Series

HYDROGEOLOGIST

08/93

Summary

Under general direction, plan, develop, and supervise groundwater resources planning and program development to provide present and future water requirements; perform related duties as required.

Typical Duties

Plan, direct and supervise groundwater investigations and studies including test drilling projects, sampling intervals, well tests, location and number of wells and preparation of water table maps; plan exploration and test drilling projects; develop and update long range plans for drilling production wells; estimate annual requirements of water consumption; determine production capacity of aquifer systems.

Determine size and number of wells; estimate materials required for well construction and prepare specifications; interpret well drilling and electric logs and determine sampling intervals; supervise and inspect work done by private contractors.

Study geologic reports of the El Paso area; prepare and control unit's annual operating budget; supervise, train and evaluate assigned personnel; enforce established rules and regulations, standards of conduct and work attendance; maintain records and prepare reports; enter, retrieve and analyze data from personal computers.

Minimum Qualifications

Training and Experience: Graduation from an accredited college or university with a Master's Degree in Geology, Groundwater Hydrology or related field and three years professional experience in groundwater resources planning, investigation or water well construction; or an equivalent combination of training and experience.

Knowledge, Abilities and Skills: Considerable knowledge of the practices, methods and techniques of Geology and Groundwater Hydrology; the hydrology and geology of the El Paso area; the use and care of a personal computer and applications software; good knowledge of well drilling practices and procedures; supervisory techniques, standards of conduct and work attendance; some knowledge of budget development and control.

Ability to use well logging equipment; to collect and interpret data relating to groundwater and aquifers; to prepare water table and isopachous maps; to supervise, train and evaluate assigned personnel; to establish and maintain effective working relationships with fellow employees and the general public; to maintain records and prepare reports.

Skill in the use and care of well logging equipment and personal computers.

Physical Requirements: Mobility within a field environment; operate a motor vehicle through City traffic.

Licenses and Certificates: Texas "Class C" drivers license or equivalent license issued by another state.

Director of Personnel

Department Head